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Claims

- 5 **547**
1. A reel-up/winder, comprising one or several members (11,12;30...34) that support the reel/roll (10) to be formed onto a reel/roll spool (16), of which members at least one support member is a set of belt rolls (12;30...34), which consists of a belt loop (15, 34) which is supported by means of at least two rolls (13,14;30,31), whose axes are substantially parallel to the axis of the reel/roll spool (16), **characterized** in that into the outer face of the mantle of at least one roll (13,14;30,31) being in nip contact with the reel/roll (10) to be formed in said set of belt rolls (12;30...34), a substantially spiral-shaped groove pattern (204) has been formed, which extends across the axial width (l) of the roll mantle (202).
 - 10 2. A reel-up/winder as claimed in claim 1, **characterized** in that it comprises a first winding drum (11) and a second winding drum arrangement (12), which consists of a first belt roll (13), of a second belt roll (14), and of adjacent endless belts (15) fitted around said belt rolls, the web (W) running through a first nip (NP₁) formed between the first winding drum (11) and the paper roll (10) and through a second nip (NP₂) formed between the second winding drum arrangement (12) and the paper roll (10) and being wound onto a roll spool (16), whereas into the outer face of the roll mantle (202) of the first belt roll (13) being in nip contact with the paper roll (10) to be formed in the second winding drum arrangement (12), a substantially spiral-shaped groove (204) has been formed, which extends across the axial width (l) of the roll mantle (202).
 - 20 3. A reel-up/winder as claimed in claim 1, **characterized** in that it comprises a reel cylinder (30), along with whose circumference the web (W) runs before it is transferred, through a nip (N) formed by the reel cylinder (30) and by a reel spool (16) resting on support rails (35), onto the circumference of the reel (10) that is formed around the reel spool (16), and which reel-up further comprises an endless belt (34), which runs as guided by guide rolls (31...33) and through the nip (N) between the reel cylinder (30) and the reel (10), and which belt (34) supports the web (W) when the web arrives in the reel-up and until the web (W) is reeled around
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the reel (10) that is formed onto the reel spool (16), whereas into the outer face (202) of the mantle of the reel cylinder (30) being in nip contact with the paper roll (10), a substantially spiral-shaped groove (204) has been formed, which extends across the axial width (b) of the mantle (202) of the reel cylinder (20).

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4. A reel-up/winder as claimed in ~~any of the claims 1 to 3~~ ^{claim 1}, characterized in that the depth (h) of said groove (204) is, at its deepest point, about 0.3...1.5 mm, preferably about 0.3...1.0 mm.

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5. A reel-up/winder as claimed in ~~any of the claims 1 to 4~~ ^{claim 1}, characterized in that the width (d) of said groove (204) is about 20...150 mm, preferably about 35...100 mm.

ADD A2
ADD B3
GW (2)